

M/049/009



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MAR 05 1987

P.O. Box 250  
EUREKA, UTAH 84628  
[ 801] 433-6854

DIVISION OF  
OIL, GAS & MINING

March 4, 1987

T.B. HANNIFIN, JR.  
General Manager

Lowell P. Braxton  
State of Utah  
Department of Natural Resources  
Division of Oil, Gas, and Mining  
355 West North Temple  
3 Triad Center, Suite 350  
Salt Lake City, Utah 84180-1203

Dear Mr. Braxton:

Enclosed please find Sunshine Mining Company's 1986 Annual Report. During the year our operations have been curtailed with our company only conducting a small underground diamond drilling and maintenance program in the Apex-Burgin mine area. Throughout 1986 the only impact we have made on the surface plant site was to increase the size of the Apex No. 2 dump approximately 0.01 acre by dumping of waste development rock from drifting and drill station preparation.

Sunshine has not appreciably impacted on our permitted surface area other than the 0.01 acre at the Apex dump during 1986.

The required bond to permit the three small tailings ponds has not been posted by Sunshine. I have notified the personnel in the company involved with bonding, but to date, they have not finalized a bond for this area. Our operations has not started any construction at this site during the year.

I have not included a map to denote the surface impacts or improvements on our permitted areas for 1986. Since we are essentially at a standby maintenance mode at the operations and have made no appreciable changes on the permitted areas the original permit maps are still essentially up to date. If you or anyone in the division would like or require an updated map or maps please feel free to notify me and I will compile and forward them to your division.

Very truly yours,  
*Glenn M. Mellor*  
Glenn M. Mellor

GMM/lrl  
Enclosure

*If we have a map on file they cannot locate here - reference that map on this letter - let's not ask for an update unless it shows something new. LHB 3/5/87*

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DIVISION OF  
OIL, GAS & MINING

ANNUAL OPERATIONS AND PROGRESS REPORT

From Month/Year January 1986  
to Month/Year December 1986

(To be submitted for each mining operation at the end of each calendar year to the Division at this address:)

STATE OF UTAH  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING  
355 West North Temple  
3 Triad Center, Suite 350  
Salt Lake City, Utah 84180-1203  
(801) 538-5340

OPERATOR: Sunshine Mining Co. MINE NAME: Apex shaft, Burgin  
ADDRESS: P.O. Box 250 development, Trixie mine  
Eureka, Utah 84628  
PERMIT NUMBER AND DATE OF PERMIT: ACT/049/009 May 1982  
REPRESENTATIVE: T.B. Hannifin, Jr. - Resident Manager  
SECTION(S): \_\_\_\_\_ TOWNSHIP(S): 10 South RANGE(S): 2 West  
MINERAL(S) MINED: Silver, Lead, Zinc, Copper, Gold  
STATE AND/OR FEDERAL MINERAL LEASE NUMBERS: \_\_\_\_\_  
SPECIAL USE PERMITS AND/OR RIGHTS-OF-WAY: N/A

Section 40-8-15 and Rule M-8 of the Utah Mined Land Reclamation Act, requires each operator to include with this report an up-dated map and plan prepared in accordance with Rule M-3, as outlined in the requirements for annual report maps in Appendix I, providing a detailed status of all mining and reclamation activities which have occurred during the past year.

The report should include:

MINING:

(a) Tabulation of acreage disturbed (by pits, roads, facilities, etc.) during the report period with illustration on a current map.

<u>Disturbance</u>	<u>Acreage</u>
Pit	-0-
Roads	-0-
Facilities	-0-
Waste Dumps	-0-
Other	-0-

(b) Tabulation of acreage affected to date (by years).

<u>Date by Year</u>	<u>Acreage (Total)</u>
1975	
1976	
1977	
1978	
<del>1979</del> 1982	
<del>1980</del> 1983	0.54
<del>1981</del> 1984	3.34
<del>1982</del> 1985	71.74
<del>1983</del> 1986	71.75 (*Apex shaft dev. work)

(c) Tabulation of all topsoil (new) stockpile volumes (see chart below) and date of stockpiling.

#### SOIL TABULATION CHART

Area Affected (in mining sequence) (If more space is needed, please attach.)	<u>Area</u>					6
	<u>1</u>	<u>2</u>	<u>3</u>	<u>4</u>	<u>5</u>	
Acreage of Area	0.01	-0-	-0-	-0-	-0-	-0-
Depth of Topsoil Removal (inches)	-0-	-0-	-0-	-0-	-0-	-0-
Depth of Topsoil Replacement (inches)*	-0-	-0-	-0-	-0-	-0-	-0-
Estimate of Topsoil Volume Salvaged (yd <sup>3</sup> or ac ft)	-0-	-0-	-0-	-0-	-0-	-0-
Volume Actually Salvaged (yd <sup>3</sup> or ac ft)	-0-	-0-	-0-	-0-	-0-	-0-
Volume Required for Reclamation (yd <sup>3</sup> or ac ft)	-0-	-0-	-0-	-0-	-0-	-0-
Surplus or Deficit Volume (yd <sup>3</sup> or ac ft)	-0-	-0-	-0-	-0-	-0-	-0-
Storage Status (short- or long-term)	-0-	-0-	-0-	-0-	-0-	-0-

Apex -1                      Tailings Pond -4  
 Trixie -2                    Settling Ponds -5  
 Burgin Mill -3              Hunter Shaft -6

Soil Tabulation Chart (continued)

Area Affected (in mining sequence)	Area			etc.
	1	2	3	
Apex permit area				
Storage Location	On Site			
Area Where Soil Has Been Used (if not stored)	N/A			
Running Total (all stockpiles) (yd <sup>3</sup> or ac ft)	6,500 yd <sup>3</sup>			
Short-term	-0-			
Long-term	Yes			

\*Of previously stripped area recently reclaimed.

(d) Tabulation of all (newly removed) out-of-pit spoil volumes, date of placement and illustration on a map.

<u>Area</u>	<u>Date</u>	<u>Acreage</u>
None For 1986		

(e) Tabulation of quantity of commodity mined.

	<u>Commodity</u>	<u>Tonnage</u>
(Mined)	None - Mining curtailed during 1986	
(Milled)		

(f) Description of any new construction during the report period with illustration on a map, including, but not limited to:

1. Buildings and support facilities.  
None For 1986

2. Roads.  
None For 1986

3. Diversion ditches, collector ditches, interceptor ditches, etc.  
None For 1986

4. Culverts.  
None For 1986

5. Sediment ponds, containment ponds.  
None For 1986

6. Monitoring sites (vegetative, air quality, surface subsidence, surface water or ground water, etc.).

Two monitor wells DP-2 and DP-3 were completed at the settling pond permit area. The sites were re-graded and re-claimed upon completion of the drilling program. No roads were constructed to the site.

7. Topsoil stockpiles.

No surface construction was completed so no topsoil was stockpiled.

(g) Description of any environmental problem areas with a proposed plan for mitigation and illustration on a map, including, but not limited to:

1. Pit stability problems.

N/A

2. Subsidence.

N/A

3. Accidental water discharge, dam failure, etc.

N/A

4. Slumping, sliding or erosion.

N/A

5. Revegetation problem areas.

N/A

6. Existence and location of unsuitable (toxic) overburden.

None

RECLAMATION:

(a) Tabulation of the acreage reclaimed during the report period with illustration on a map, distinguishing between:

1. Backfilled, graded and contoured areas.

Area

Acreage

None

2. Topsoiled areas.

Area

Acreage

None



3. Seeded areas.

<u>Area</u>	<u>Acreage</u>
None	

4. Reseeded areas (areas previously seeded, then seeded again).

<u>Area</u>	<u>Acreage</u>
None	

(b) Tabulation of total acreage reclaimed (seeded with permanent seed mix) to date by years with illustration on an updated map:

<u>Year</u>	<u>Acreage</u>
1975	
1976	
1977	
1978	
1979	
1980	
<del>1981</del> 1983	-0-
<del>1982</del> 1984	-0-
<del>1983</del> 1985	1.83
<del>1984</del> 1986	-0-

(c) Description of the reclamation procedures used during the report period, including:

1. Average depth of topsoil applied.

No topsoil was applied during 1986

2. Type of seed (species) used for seeding during the report period.

None

3. Date of seeding during the report period. None

Spring \_\_\_\_\_

Fall \_\_\_\_\_

4. Seeding procedures used. N/A

(Hand broadcast or drilled or any other).

5. Rate of seed application. N/A

Pounds Per Acre of Pure Live Seed (PLS) (if varied, please explain)

6. Type and rate of fertilizer applied. N/A

7. Type and rate of mulch applied. N/A

8. Rate of irrigation water applied, if any. Please describe any type of sprinkling, or water applied (water truck, etc.).

N/A

9. Revegetation test plot information.

(Cover, density, productivity, etc.)

None - submitted in 1985 annual report



10. Soil analysis results.

None - on permitted area

(d) Description of results of previous revegetation efforts, including:  
(This should be done as applicable.)

1. Types (species) of seed that have germinated and are growing.

N/A

2. Types (species) of seed that are not growing successfully.

N/A

3. Areas experiencing problems with weeds and weed types.

N/A

4. Significant erosional problems.

N/A

5. Areas of unsuitable overburden on the surface as related to  
revegetation failure.

N/A

6. Procedures used or proposed to correct these problems.

N/A

7. Acreage and dates of release (upon inspection by the State) of revegetated areas.

<u>Area</u>	<u>Date</u>	<u>Acreage</u>
None - to date		

8. Results of soil analysis.

N/A

(e) Summarization of the reclamation costs incurred during the report period, including itemized costs for each operation (i.e., grading, topsoil replacement, seeding, etc.) and for each type of disturbance (i.e., spoil, haul roads, facilities removal, etc.) on a per acre basis.

	<u>Acres</u>	<u>Cost/Acre</u>
1. Grading      None for 1986		
2. Backfilling		
3. Contouring		
4. Topsoil Replacement		
5. Seeding		
A. Seedbed Preparation		
B. Mulch		
C. Fertilizer		
D. Seed		
6. Other		

BOND INFORMATION:

- A. An updated bond estimate should be included, if required in the Division's approval of the Mining and Reclamation Plan (MRP) or if changes to the MRP have occurred, including a detailed itemization of actual/estimated reclamation costs as outlined in the RECLAMATION section above. The date of the release of revegetated areas from further responsibility for a partial bond release, if applicable, should also be included.

	<u>Amount</u>	<u>Type</u>	<u>Date Posted</u>
Present Bond	<u>736,000</u>	<u>Surety</u>	

Increased disturbance, if any: None

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Increased Bond Amount (attached reclamation estimate).  
Trixie tailings pond permit applied for

B. Bond release.

Sunshine Mining Co. has not, to date, posted a bond.

<u>Acres</u>	<u>Bond Amount Released</u>	<u>Date</u>
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____

ADDITIONAL INFORMATION:

Supply any additional information as requested by the Division related to:

- (a) Permit stipulations (status).
- (b) Other special conditions (status).

APPENDIX I

ANNUAL REPORT MAPS

1. Maps must be clear and legible contour maps or recent aerial photos. The scale should be 1 inch = 500 feet to adequately show topographic features.
2. Map sheets should be of a reasonable size, not to exceed 48 inches on a side.
3. Maps must have a title block with:
  - A. Map title.
  - B. Name and address of permittee.
  - C. Permit and amendment numbers.
  - D. Annual report period.
  - E. Scale, north arrow, contour interval, date of photography, etc.
4. All maps must show:
  - A. Legal subdivisions.
  - B. Permit area boundary clearly shown and labelled.
  - C. Amendment areas clearly shown and labelled.
  - D. Contour features.
5. The following features should all be clearly identified:
  - A. Topsoil stockpiles (numbered and with volumes).
  - B. Settling ponds and sediment control structures.
  - C. Haul roads.
  - D. Pits identified by location, name, number, etc.
  - E. Ramps (numbered).
  - F. Out-of-pit spoil dumps.
  - G. All waste disposal sites including, but not limited to:
    1. Landfill sites.
    2. Carbonaceous waste dumps.
  - H. Diversion ditches.
  - I. Monitoring sites.
6. All areas to be affected by mining and reclamation in the coming year should be outlined and labelled.